

Interfaces

Provide Additional Power or Control of Additional Light Sources



Hi-Power 2-4-6™
Dimming Modules



Power Booster (PB)



Electronic Low-Voltage
Interface (ELVI)



Fluorescent Dimming
Ballast Interface (FDBI)

Products above are not shown to scale,
see pgs.188-189 for dimensions.

Product Features

Hi-Power 2-4-6 Dimming Modules

- Permit control of all popular lighting sources from one module; One dimmer can control up to 5 modules (30,000W)

Power Boosters

- Increase capacity for loads up to one 20A circuit (1920W) of incandescent, magnetic low-voltage, and neon/cold cathode sources







ELVI Interfaces

- Increase capacity for loads up to 1000W for electronic low-voltage sources

FDBI Interfaces

- Increase capacity for loads up to 16A of Lutron Hi-lume® line-voltage control electronic dimming ballasts

Key to Control Functions

	Incandescent
	Electronic Low Voltage
	Magnetic Low Voltage
	Neon/Cold Cathode
	Fluorescent
	High-Intensity Discharge (non-dim only)

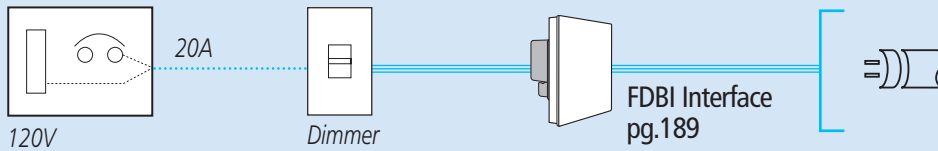
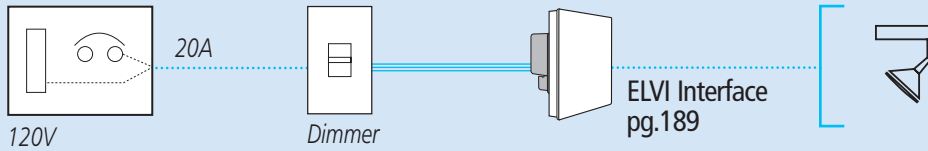
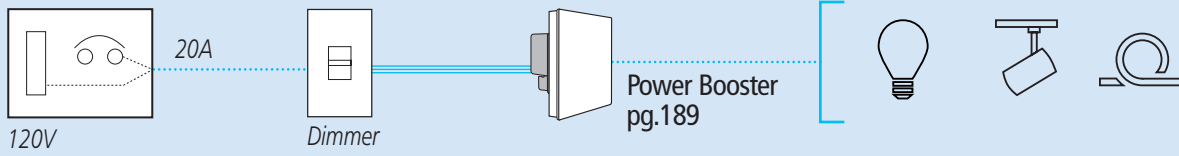
System Wiring

Wiring Type Key

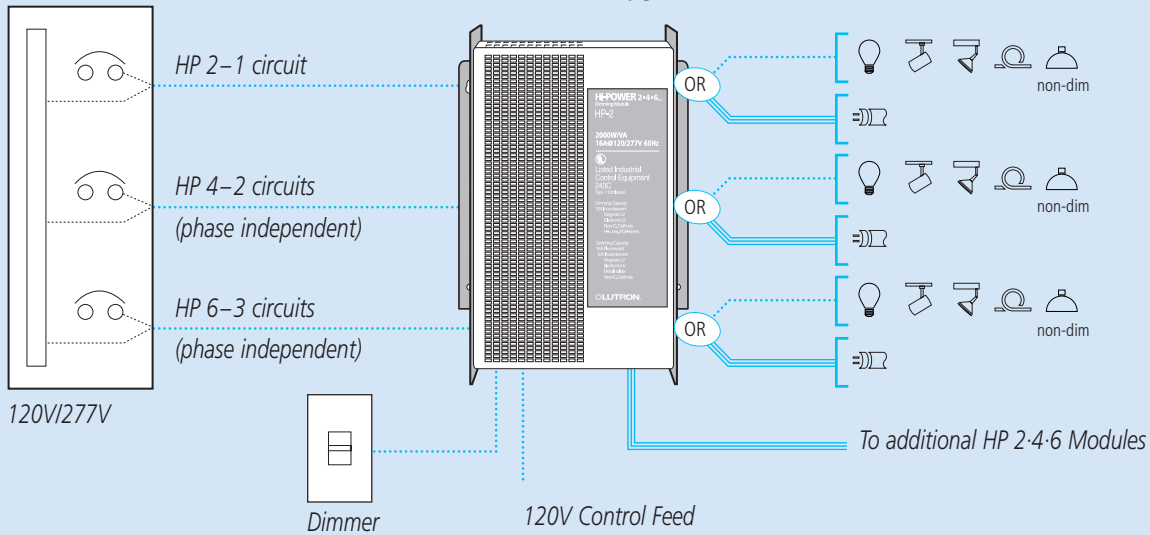
TYPE A (2) 12 AWG (120/277V)

TYPE B (3) 12 AWG wires (120/277V)

Standard Distribution Panels

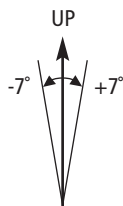


Hi-Power 2-4-6™, pg.188












For a complete list of products compatible with interfaces, see pg.187
 For more detailed wiring diagrams, see Wiring Diagram Index, pg.204

Mounting:





- Power boosters/interfaces are not plenum rated and are for indoor use only
- When mounting several units in vertical layout, allow 4.5" (114mm) between units
- Power boosters/interfaces must be mounted within 7° of true vertical
- Power boosters/interfaces generate heat; mount only where ambient temperature will be 0°-40°C (32°-104°F) with a non-condensing relative humidity <90%







Select Interface by Load

Load Type		Select Interface			
		 Power Booster ¹ pg.189	 ELVI Interface ² pg.189	 FDBI Interface ¹ pg.189	 Hi-Power 2-4-6™ ¹ per circuit, pg.188
	Incandescent				
	120V 16A, 1920W	●			●
	Electronic Low Voltage				
	120V 8.3A, 1000W		●		● ³
	16A, 1920W		(use two)		● ³
	Magnetic Low Voltage				
	120V 16A, 1920VA (1500W)	●			●
	277V 16A, 4432VA (3500W)				●
	Neon/Cold Cathode				
	120V 16A, 1920VA	●			●
	Fluorescent				
	Hi-lume® Ballasts 120V 16A			●	●
	Tu-Wire® Ballasts 120V 16A	● ⁴			● ⁵
Maximum Per Dimmer		2	2	2	5
		<ol style="list-style-type: none"> 1 Each counts as 40W load toward dimmer maximum capacity and meets the minimum load requirement. 2 Each counts as 25W load toward dimmer maximum capacity and meets the minimum load requirement. 3 Approved transformers only, please contact the Lutron Technical Support Center. 4 When used with a GRAFIK Eye® control unit. 5 For best performance, use Faedra™, Maestro®, NovaT☆®, Spacer®, Spacer System™, or Vareo®. 			

Select a Control for the Interface

Product	Select Interface			
	 Power Booster pg.189	 ELVI Interface pg.189	 FDBI Interface pg.189	 Hi-Power 2.4-6™ per circuit, pg.188
Ariadni® pg.88	—	AYF-103P-	AYF-103P-	AY-600P-, AY-603P-
Diva® pg.64	Gloss Satin Colors™	— DVSCF-103P-	DVF-103P- DVSCF-103P-	DV-600P-, DV-603P- DVSC-600P-, DVSC-603P-
Faetra™ pg.82	—	—	—	FA-600-, FA-600M-
Glyder® pg.92	—	—	—	GL-600-, GL-600P-, GL-603P-
GRAFIK Eye® pg.108	3000 Series 2000 Series	All interfaces wire directly to individual zones on any GRAFIK Eye 3000 Series control unit GRX-2402-, -2403-, -2406-		
Maestro® pg.58	Gloss Satin Colors	MAELV-600- MSCELV-600M-	— —	MA-600- MSC-600M-
NovaT☆® pg.28	Direct 2000W control with NT-2000-	NTF-10-, NTF-103P-	Direct 16A control with NTF-10-, NTF-103P-	NT-600-, NT-603P- NTB-600-
Qoto™ pg.86	—	—	—	Q-600P-, Q-603P-
RadioRA® pg.154	RA-6ND-	RA-6ND-	RA-6ND-	RA-6ND-
Skylark® pg.70	—	SF-10P- SF-103P-	SF-10P- SF-103P-	S-600-, S-600P-, S-603P-
Spacer® pg.54	Use Spacer System	Use Spacer System	Use Spacer System	SP-600-, SP-600M-
Spacer System™ pg.142	SPSELV-600- SPSELV-600M-	SPSF-6A- SPSF-6AM-	SPSF-6A- SPSF-6AM-	SPS-600-, SPS-600M-
Vareo® pg.24	—	VF-10-	VF-10-	V-600-

Hi-Power 2·4·6™










Description	Maximum Capacity	Model #	Important Information
Hi-Power 2·4·6 Dimming Modules Incandescent, Magnetic Low Voltage, Electronic Low Voltage, Fluorescent, Neon/Cold Cathode, High-intensity Discharge <i>120V or 277V in one module; not for 100V, 230V, 220-240V; up to 5 modules can be daisy-chained for greater capacity.</i>			Ships in 48 hrs. Hi-Power Dimensions W: 10.38" (264mm) H: 14.50" (368mm) D: 5.75" (146mm) wt: 15lb (6.8kg) Surface Mount Hi-Power Maximum Heat Dissipation HP-2: 200Btu/hr HP-4: 400Btu/hr HP-6: 600Btu/hr Installation Modules make an audible noise, mount where acceptable.
      non-dim	Hi-Power 2 120/277V 1 Circuit HP-2 <i>Product Above:</i> The load circuit capacity by source and voltage is detailed below. Hi-Power 2 dimming modules control the lights based upon control input from a single 120V dimmer. Requires a single 120V control feed for dimmer and a phase independent 120/277V load feed. Minimum load is 50W.		
Hi-Power 4 120/277V 2 Circuits HP-4 <i>Product Above:</i> The load circuit capacity by source and voltage is detailed below. Hi-Power 4 dimming modules control the lights based upon control input from a single 120V dimmer. Requires a single 120V control feed for dimmer and two phase independent 120/277V load feeds. Minimum load is 50W per circuit.			
Hi-Power 6 120/277V 3 Circuits HP-6 <i>Product Above:</i> The load circuit capacity by source and voltage is detailed below. Hi-Power 6 dimming modules control the lights based upon control input from a single 120V dimmer. Requires a single 120V control feed for dimmer and three 120/277V load feeds. Maximum heat dissipation is 600 Btu/hr. Minimum load is 50W per circuit.			







For More Information:
www.lutron.com/hipower246
 Fax-on-Demand 1-800-523-9466

Load Capacity per Circuit—Dimmed or Switched

(Not to exceed N.E.C. capacity rating; control voltage is always 120V)

Source	Dimmed (120V)	Switched (120V)	Dimmed (277V)	Switched (277V)
 Incandescent	16A, 1920W/VA	10A, 1200W/VA		
 Electronic Low Voltage	16A, 1920W/VA	10A, 1200W/VA		
 Magnetic Low Voltage	16A, 1920W/VA	10A, 1200W/VA	16A, 4432W/VA	not available
 Fluorescent (Hi-lume®)	16A, 1920W/VA	16A, 1920W/VA	16A, 4432W/VA	not available
 Fluorescent (Tu-Wire®)	16A, 1920W/VA	16A, 1920W/VA		
 Fluorescent (magnetic ballasts)	not available	16A		
 Fluorescent (electronic ballasts)	not available	10A		
 Neon/Cold Cathode	16A, 1920W/VA	10A, 1200W/VA		
 High-Intensity Discharge	not available	10A, 1200W/VA		

Power Boosters, Interfaces

	Description	Maximum Capacity	Model #	Important Information																								
<h2>Power Boosters</h2>				<p>Interface Selection Guide For a complete list of compatible interfaces and controls, see pg.187.</p> <p>Ships in 48 hrs.</p> <p>Power Booster/Interface Wallplate Dimensions W: 4.56" (116mm) H: 4.56" (116mm) D: 0.69" (18mm) Wallbox Size: 2-Gang, 3.5" (89mm) deep</p> <p>Power Booster/Interface Wiring and Installation All power boosters and interfaces should be connected to the same neutral. This neutral should not be shared with any other controls or with the lighting load.</p> <p>Lamp Debuzzing Coil Installation Mounts on 4" x 4" x 1.5" junction box. LDCs make an audible buzz; mount in remote area (e.g., an electrical closet, or a basement.) Not for use with electronic low-voltage or fluorescent loads; reverse phase-control products; or with Spacer System™, Spacer®, Maestro®, or Faedra™ dimmers. Not plenum rated.</p>																								
	<p>Incandescent, Magnetic Low Voltage, Neon/Cold Cathode, Fluorescent with Tu-Wire® Dimming Ballast</p> <p>120V 2000W/VA NGRX-PB-WH</p> <ul style="list-style-type: none"> • Can switch (non-dim) all of the sources mentioned above • Up to two interfaces per dimmer <p><i>Product Above:</i> All voltages indicated are phase-to-neutral. Load circuit feed is phase independent of control circuit from dimmer. Only available in white. For compatible controls, see pg.187.</p>																											
	<p>Electronic Low-Voltage Interface</p> <p>120V 1000W ELVI-1000</p> <ul style="list-style-type: none"> • Uses reverse phase-control necessary for dimming of electronic transformer supplied low-voltage lighting • Up to two interfaces per dimmer <p><i>Product Above:</i> All voltages indicated are phase-to-neutral. Load circuit feed is phase independent of control circuit from dimmer. Only available in white. For compatible controls, see pg.187.</p>																											
	<p>Fluorescent Dimming Ballast Interface</p> <p>120V 16A GRX-FDBI-16A-120</p> <ul style="list-style-type: none"> • Allows dimming of Lutron Hi-lume® line-voltage control electronic dimming ballasts (Please refer to the Lutron Fluorescent Dimming Systems Selection Guide, P/N 366-002, or visit www.lutron.com for more information) • Up to two interfaces per dimmer <p><i>Product Above:</i> All voltages indicated are phase-to-neutral. Load circuit feed is phase independent of control circuit from dimmer. Only available in white. Not to be used for switching. For compatible controls, see pg.187.</p>																											
<h2>Lamp Debuzzing Coils (LDC)</h2> <p><i>An effective way of reducing lamp filament buzz.</i></p> <table border="1"> <thead> <tr> <th></th> <th>120V</th> <th>277V</th> <th></th> </tr> </thead> <tbody> <tr> <td>LDC</td> <td>100W – 200W</td> <td>100W – 450W</td> <td>LDC-1.7-TCP</td> </tr> <tr> <td>LDC</td> <td>200W – 400W</td> <td>450W – 900W</td> <td>LDC-3.3-TCP</td> </tr> <tr> <td>LDC</td> <td>400W – 800W</td> <td>900W – 1500W</td> <td>LDC-6.7-TCP</td> </tr> <tr> <td>LDC</td> <td>600W – 1200W</td> <td>—</td> <td>LDC-10-TCP</td> </tr> <tr> <td>LDC</td> <td>1200W – 1920W</td> <td>—</td> <td>LDC-16-TCP</td> </tr> </tbody> </table> <p><i>Products Above:</i> Use one LDC per dimmer. LDCs may be wired in series with the dimmer on its line side or load side. UL listed and thermally protected. Do not overload LDC.</p>					120V	277V		LDC	100W – 200W	100W – 450W	LDC-1.7-TCP	LDC	200W – 400W	450W – 900W	LDC-3.3-TCP	LDC	400W – 800W	900W – 1500W	LDC-6.7-TCP	LDC	600W – 1200W	—	LDC-10-TCP	LDC	1200W – 1920W	—	LDC-16-TCP	
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				<p>For More Information: www.lutron.com/grafikeye/grspec Fax-on-Demand 1-800-523-9466</p>																								